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M3 - [01] C106 C810 M411 M720 M903 M904 M910 N104 N120 N209 N212 N213 N221  
N222 N441 N442 Q323 Q453 Q454 R042; R01669-P; 1669-P

- [02] A300 A400 A500 A940 C106 C730 C810 M411 M730 M903 Q421

PA - (NIDE ) NEC CORP

PN - JP6322615 A 19941122 DW199506 D01F9/12 006pp

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XIC - C01B-031/02 ; D01F-009/12 ; D01F-009/127

AB - J06322615 Carbon-fibre comprises a graphite sheet comprising six  
membered carbon ring structure as the main structure.

- The carbon fibre pref. has less than 3nm of dia.. Prepn. of the  
aforementioned carbon fibre comprises sending hydrocarbon as raw gas  
in arc discharge plasma comprising mainly inert gas, and forming a  
carbon fibre by pyrolysing it in the presence of gaseous catalyst  
substance. The catalyst is (transition) metal or (transition) metal  
carbide. Prepn. of the carbon fibre can be obtd. carbon nano-tube  
comprising single layer cylindrical graphite sheet different from  
conventional carbon nano-tube. Dia. of the carbon nano-tube is less  
than 3nm, almost all of it is 1nm.

- USE/ADVANTAGE - Single layer spiral cylindrical structure carbon fibre  
is useful for electronic device. In the single layer graphite sheet,  
approximate uniform dia. of carbon nano-tube is obtd., so control of  
electric characteristics of the carbon nano-tube is simplified. By  
making the single layer carbon nano-tube to nuclei, and growing newly  
graphite cylinder on the surface of the single layer carbon nano-tube,  
mfg. of carbon nano-tube which is controlled number of the cylinder is  
developed.(Dwg.0/6)

CN - R01669-P

DRL - 1669-P

IW - CARBON@ FIBRE MANUFACTURE ELECTRONIC DEVICE COMPRISE GRAPHITE SHEET  
SIX MEMBER CARBON@ RING STRUCTURE MAIN STRUCTURE

IKW - CARBON@ FIBRE MANUFACTURE ELECTRONIC DEVICE COMPRISE GRAPHITE SHEET  
SIX MEMBER CARBON@ RING STRUCTURE MAIN STRUCTURE

NC - 001

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ORD - 1994-11-22

PAW - (NIDE ) NEC CORP

TI - Carbon@ fibre for mfr. of electronic device - comprises graphite sheet  
with six membered carbon@ ring structure as main structure